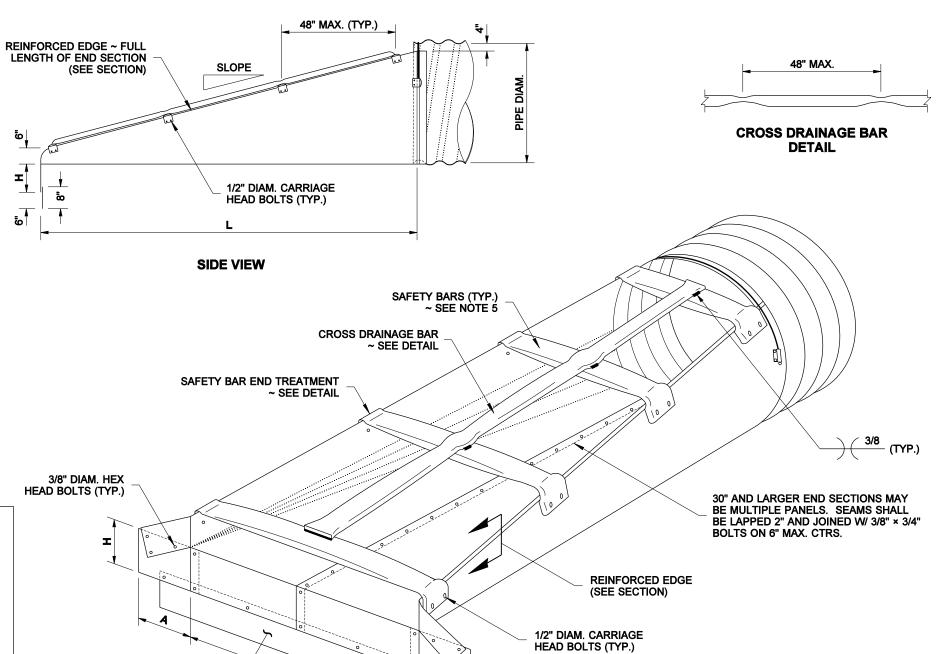


REINFORCED EDGE SECTION

TOE PLATE EXTENSION ~ WHEN REQUIRED

(SEE NOTE 2)

SAFETY BAR END TREATMENT DETAIL



ISOMETRIC VIEW

CROSS DRAINAGE STRUCTURE



- 1. All pipes or pipe arches shall be attached as shown in CONNECTOR DETAIL.
- 2. When a Toe Plate Extension is required, it shall be the same gage as the End Section. The dimensions shall be 8" high, and 6" less than the overall width. Install centered, and lapped 2"; fasten with 3/8" × 3/4" galvanized bolts on 12" maximum centers.
- 3. Cross Drainage Bar and Safety Bars shall be 3" Schedule 40 galvanized steel pipe. Cross Drainage Bars shall be placed a maximum 30" apart.
- 4. Slotted holes for safety bar attachment shall be provided on end sections.
- 5. Number of Safety Bars required will vary depending upon the length of the end section.

METAL END SECTIONS FOR CIRCULAR PIPES										
PIPE DIAM. (INCHES)	MINIMUM THICKNESS		DIMENSIONS (INCHES)							
	INCHES	GAGE	A	Н	w	OVERALL	L	L		
						WIDTH	SLOPE 4:1	SLOPE 6:1		
36	0.109	12	12	9	42	66	104	156		
42	0.109	12	16	12	48	80	128	192		
48	0.109	12	16	12	54	86	152	228		
54	0.109	12	16	12	60	92	176	264		
60	0.109	12	16	12	66	98	200	300		

METAL END SECTIONS FOR ARCHED PIPES											
EQUIV. DIAM. (INCHES)	PIPE ARCH DIMENSIONS		MINIMUM THICKNESS		DIMENSIONS (INCHES)						
	SPAN (IN.)	RISE (IN.)	INCHES	GAGE	A	н	w	OVERALL WIDTH	L	L	
									SLOPE 4:1	SLOPE 6:1	
30	* 35	24	0.079	14	12	9	*41	65	56	84	
36	42	29	0.109	12	12	9	48	72	76	114	
42	49	33	0.109	12	16	12	55	87	92	138	
48	57	38	0.109	12	16	12	63	95	112	168	
54	64	43	0.109	12	16	12	70	102	132	198	
60	71	47	0.109	12	16	12	77	109	148	222	
72	83	57	0.109	12	16	12	89	121	188	282	

 \star SAFETY BARS ARE INSTALLED ON END SECTION WHEN SPAN IS GREATER THAN 36"



TAPERED END SECTION WITH TYPE 3 SAFETY BARS STANDARD PLAN B-80.20-00

SHEET 1 OF 1 SHEET

06-08-06

APPROVED FOR PUBLICATION

Harold J. Peterfeso 06



TO BE BOLTED TO END SECTION

1/2" DIAM. THREADED ROD OVER TOP OF END SECTION. SIDE LUGS

SIDE LUG

END SECTION

TOP VIEW
CONNECTOR DETAIL